

REMARKS

Claims 23-44 are pending. By the present Amendment, claims 23, 24, 26, 34, 35 and 37 are canceled. Claims 25, 27-32, 36 and 38-43 have been amended.

Applicants note with appreciation the allowance of claims 26, 28, 37, and 39 if rewritten in independent form, including the limitations of the base claim and any intervening claims. Applicants have amended claims 25 and 36 to include the limitations of claims 26 and 37, respectively. Claim 38 has been amended to depend from claim 36 to overcome the objection set forth in section one of the Office Action. Claims 27-32 and 39-43 have been amended, respectively, to depend from either claim 25 or claim 36. Further, claims 27 and 38 have been amended to replace equation 13 therein with equation 12. It is to be understood that the amendments herein are being made to expedite allowance of the subject application. Applicants reserve the right to pursue prosecution on the original claims in a continuing application and make no admission regarding the applicability of the Examiner's grounds for rejecting the claims.

In the Office Action, claims 24, 27, 35 and 38-44 are rejected for failing to comply with the enablement requirement set forth in 35 U.S.C. §112, first paragraph. The Office Action specifically references equations 5 and 13 and the derivation of the carrier frequency deviation as being unclear, and states that the magnitudes of received and transmitted sequences appear to be zero. With reference to page 16, equation 12 of the specification, equation 12 includes the term directed to the argument of the second power of the absolute value of the sample values. Applicants therefore respectfully submit that the invention as recited in claims 27 and 38 is now clear and respectfully request withdrawal of the 35 U.S.C. §112, first paragraph rejection of these claims and claims 39-44 depending from claim 38.

In addition, the objections set forth in section three of the Office Action are not proper. The sample values $r(k)$ represent complex quantities, wherein each complex quantity has an absolute value (magnitude) and an argument. The absolute value of a complex quantity is a real number. The argument of a complex quantity represents the angle between the real part and the imaginary part of the complex quantity. Thus, it is

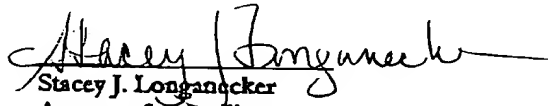
Appl. No. 09/673,265
Amdt. Dated January 19, 2005
Reply to Office Action of August 19, 2004

clear that the argument of the absolute value of the second power $r(k)$ equals zero, since the absolute value of $r(k)$ represents a real number.

In view of the claim amendments herein, the rejections of claims 23, 25, 29-34, 36 and 42 in view of various U.S. patents set forth in the Office Action are rendered moot.

In view of the above, it is believed that the application is in condition for allowance and notice to this effect is respectfully requested. Should the Examiner have any questions, the Examiner is invited to contact the undersigned at the telephone number indicated below.

Respectfully submitted,


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Dated: 19 January, 2005